

User's Guide

vf15/vf17, FP15/FP17, L1502/L1702,
L1502m/L1702m, f1523/f1723,
FP5315/FP7317 Flat Panel Monitors

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This guide provides information on setting up the monitor, installing drivers, using the on-screen display menu, troubleshooting and technical specifications.

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WARNING: Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.



CAUTION: Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.

User's Guide
vf15/vf17, FP15/FP17, L1502/L1702, L1502m/L1702m,
f1523/f1723, FP5315/FP7317 Flat Panel Monitors
Third Edition (May 2003)

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Product Features

The Flat Panel Display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

vf15, FP15, L1502, L1502m, f1523, and FP5315 Models

- 15-inch (38.1 cm) viewable area display.
- 1024 x 768 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or moving side-to-side.
- Tilt adjustment capabilities.
- Removable pedestal and VESA 75mm mounting holes for flexible mounting solutions.
- Plug and play capability if supported by your system.
- On-Screen Display (OSD) adjustments in the following six different languages: English, Dutch, French, German, Italian, and Spanish for ease of set-up and screen optimization.
- *Software and Reference Library* CD includes an information file (INF), Image color Matching File (ICM), and product documentation.
- Energy Saver feature for Energy Star compliance.
- Security lock slot

- AssetControl
- Speakers included on the front panel of the multimedia models only
- Compliant with the following regulated specifications:
 - ❑ EPA ENERGY STAR
 - ❑ European Union CE Directives
 - ❑ Swedish MPR II 1990
 - ❑ Swedish TCO Display Requirements

vf17, FP17, L1702, L1702m, f1723, and FP7317 Models

- 17-inch (43.18 cm) viewable area display.
- 1280 × 1024 native resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or moving side-to-side.
- Tilt adjustment capabilities.
- Removable pedestal and VESA 100mm mounting holes for flexible mounting solutions.
- Plug and play capability if supported by your system.
- On-Screen Display (OSD) adjustments in English, Dutch, French, German, Italian, and Spanish for ease of set-up and screen optimization.
- *Software and Reference Library* CD includes an information file (INF), Image Color Matching file (ICM), and product documentation.
- Energy Saver feature for Energy Star compliance.
- AssetControl

- Speakers included on the front panels of multimedia models only
- Compliant with the following regulated specifications:
 - ❑ EPA ENERGY STAR
 - ❑ European Union CE Directives
 - ❑ Swedish MPR II 1990
 - ❑ Swedish TCO Display Requirements

Safety and Maintenance Guidelines

Important Safety Information

A power cord is included with your monitor. If another cord is used, use only a power source and connection appropriate for this monitor. For information on the correct power cord set to use with your monitor, refer to the “Power Cord Set Requirements” section in Appendix C.



WARNING: To reduce the risk of electric shock or damage to your equipment, do not disable the power cord grounding feature. This equipment is designed to be connected to a grounded (earthed) power outlet that is easily accessible to the operator. The grounding plug is an important safety feature.



WARNING: For your safety, be sure that the power outlet you plug the power cord into is easily accessible and located as close to the equipment as possible. When you need to disconnect the power to the equipment, unplug the power cord from the power outlet by grasping the plug firmly. Never pull on the cord.



CAUTION: For the protection of your monitor, as well as your computer, connect all power cords for your computer and its peripheral devices (such as a monitor, printer, scanner) to some form of surge protection device such as a power strip or Uninterruptible Power Supply (UPS). Not all power strips provide surge protection; the power strips must be specifically labeled as having this ability. Use a power strip whose manufacturer offers a Damage Replacement Policy so you can replace your equipment if surge protection fails.

Maintenance Guidelines

To enhance the performance and extend the life of your monitor:

- Do not open your monitor cabinet or attempt to service this product yourself. Adjust only those controls that are covered in the operating instructions. If your monitor is not operating properly or has been dropped or damaged, contact your HP authorized dealer, reseller, or service provider.
- Use only a power source and connection appropriate for this monitor, as indicated on the label/back plate of the monitor.
- Be sure the total ampere rating of the products connected to the outlet does not exceed the current rating of the electrical outlet, and the total ampere rating of the products connected to the cord does not exceed the rating of the cord. Look on the power label to determine the ampere rating (AMPS or A) for each device.
- Install your monitor near an outlet that you can easily reach. Disconnect the monitor by grasping the plug firmly and pulling it from the outlet. Never disconnect the monitor by pulling the cord.
- Turn your monitor off when not in use. You can substantially increase the life expectancy of your monitor by using a screen saver program and turning off the monitor when not in use.

- Unplug your monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. If the screen requires additional cleaning, use an antistatic screen cleaner.



CAUTION: Do not use benzene, thinner, ammonia, or any other volatile substances to clean your monitor or the screen. These chemicals may damage the cabinet finish as well as the screen.

- Slots and openings in the cabinet are provided for ventilation. These openings must not be blocked or covered. Never push objects of any kind into cabinet slots or other openings.
- Do not drop your monitor or place it on an unstable surface.
- Do not allow anything to rest on the power cord. Do not walk on the cord.
- Keep your monitor in a well-ventilated area, away from excessive light, heat or moisture.
- When removing the monitor base, you must lay the monitor face down on a soft area to prevent it from getting scratched, defaced, or broken.

Cleaning the Monitor

To clean the monitor, follow these steps:

1. Turn off the monitor and the computer.
2. Dust the monitor by wiping the screen and the cabinet with a soft, clean cloth.

If the screen requires additional cleaning, use a clean cloth dampened with isopropyl alcohol.



CAUTION: Do not use benzene, thinner, ammonia, or any volatile substance to clean the monitor screen or cabinet. These chemicals may damage the monitor. Never use water to clean an LCD screen.

Shipping the Monitor

Keep the original packing box in a storage area. You may need it later if you move or ship your monitor.

Setting Up the Monitor

To set up the monitor, ensure that the power is turned off to the monitor, computer system, and other attached devices, then follow the steps below.

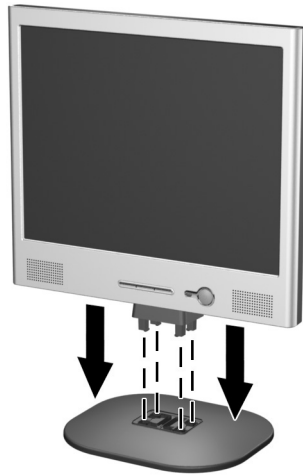
Installing the Monitor Pedestal

To install the monitor pedestal:

1. Place the pedestal plate on your desktop or table and check to be sure the arrow on the underside of the plate is facing forward.

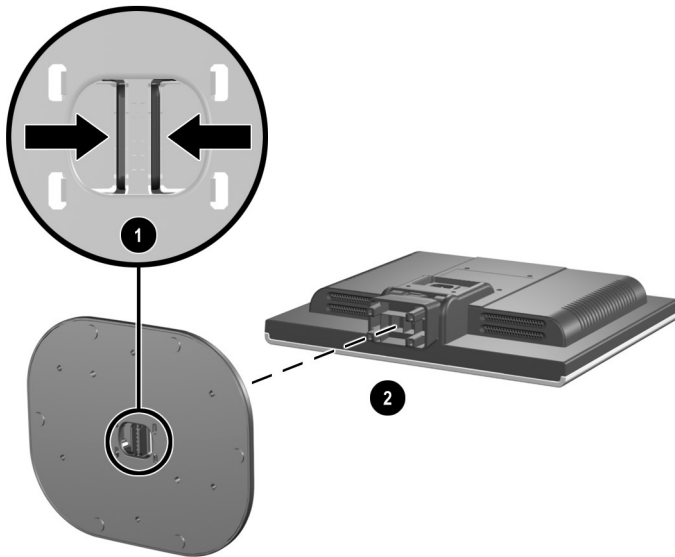
Do not install the base if the monitor will be used on a wall, swing arm, or other mounting fixture; instead see the section on “Mounting the Monitor” in this chapter.

- Using both hands, position the monitor over the pedestal base and press down firmly to lock the pedestal base in place. When the base locks, it will make a clicking sound. Make sure the pedestal base is securely locked before continuing with the setup.



Inserting the Monitor into the Pedestal Base

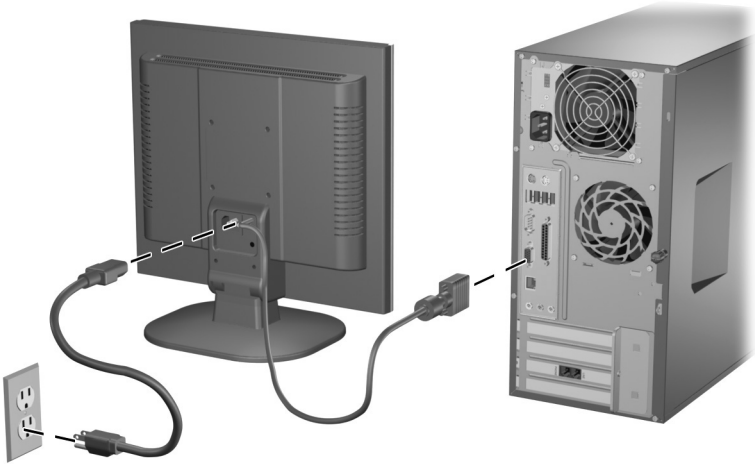
If you need to remove the pedestal base, lay the monitor down on a soft protected surface. On the bottom side of the pedestal base, press together the two tabs as shown in the following illustration. This will release the pedestal from the base.



Removing the Pedestal Base

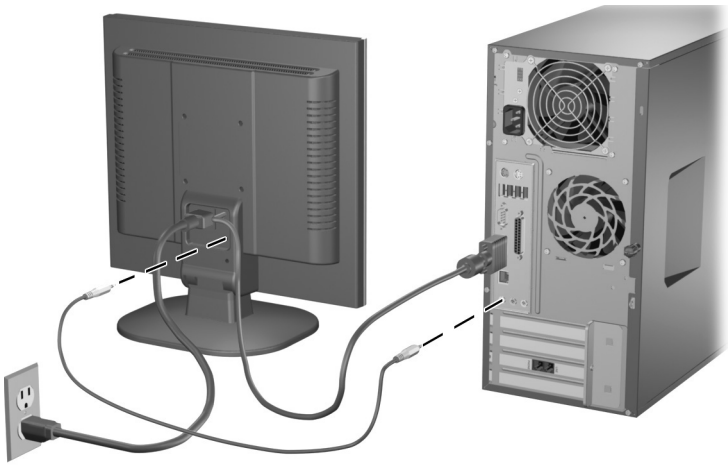
Connecting the Monitor

1. Place the monitor in a convenient, well-ventilated location near your computer.
2. Connect the monitor signal cable on the back of the monitor to the video connector on the rear panel of the computer.
3. Connect one end of the power cable to the back of the monitor, and the other end to an electrical wall outlet.



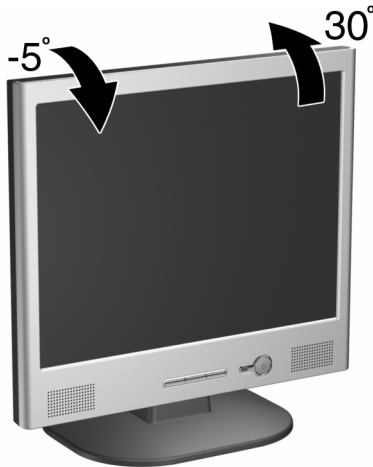
Connecting the VGA and Power Cables

4. If your monitor is a multimedia model, connect one end of the audio cable to the back of the monitor, and the other end to the audio connector on the back of the computer.



Connecting the Audio Cable

5. Adjust the monitor as needed for your comfort using the monitor's tilt adjustment capability.



Tilting the Monitor



CAUTION: Burn-in image damage may occur on monitors that display the same static image on screen for a prolonged period of time. To avoid burn-in image damage on your monitor screen, you should always activate a screen saver application or turn off the monitor when it is not in use for a prolonged period of time. Image retention is a condition that may occur on all LCD screens.



WARNING: To reduce the risk of electric shock or damage to your equipment:

- Do not disable the power cord grounding plug. The grounding plug is an important safety feature.
 - Plug the power cord into a grounded (earthed) electrical outlet that is easily accessible at all times.
 - Disconnect power from the monitor by unplugging the power cord from the electrical outlet.
 - Do not place anything on power cords or cables. Arrange them so that no one may accidentally step on or trip over them. Do not pull on a cord or cable. When unplugging from the electrical outlet, grasp the cord by the plug.
-

Removing the Monitor Base

You can remove the monitor base to mount the monitor on a wall, a swing arm, or other mounting fixture. Read the Caution and Warning statements below before beginning the procedure.

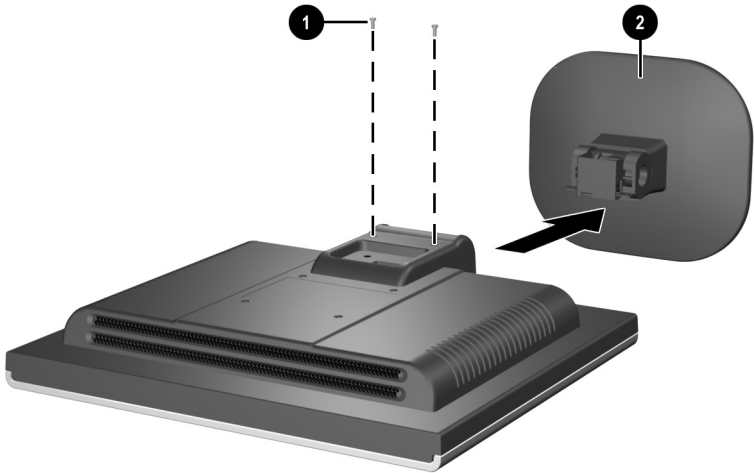


CAUTION: Before beginning to disassemble the monitor, be sure the monitor is turned off and the power and signal cables are both disconnected. If your monitor has a connected audio cable, disconnect it.



WARNING: Do not remove the base from the monitor while the monitor is in the upright position. Lay the front bezel down on a soft area to prevent it from getting scratched, defaced, or broken. Before removing the monitor from the base, ensure that the base is set to the maximum base extension. Attempting to remove the monitor from the base while upright in the minimum base extension may result in injury to the user.

1. Disconnect and remove the signal and power cables from the back of the monitor.
2. Remove the two screws **1** as shown in the following illustration.



Removing the Monitor Base



CAUTION: Ensure that the bottom of the monitor base is positioned over a table or desktop before removing the base from the monitor.

3. Remove the monitor base from the monitor.

Mounting the Monitor

1. Remove the monitor base. Refer to “Removing the Monitor Base” steps in the previous section.

After the base is removed from the monitor, four threaded mounting holes are exposed on the monitor back panel to be used for mounting purposes. These mounting holes are spaced 75 or 100mm apart and are compliant with the Video Electronics Standards Association (VESA) standard for mounting flat panel displays. The 75mm VESA hole pattern supports the 15” monitors only, and the 100mm hole pattern supports the 17” monitors only.

2. Mount the monitor to a swing arm or other mounting fixture by following the instructions included with the mounting fixture to be used.

Operating the Monitor

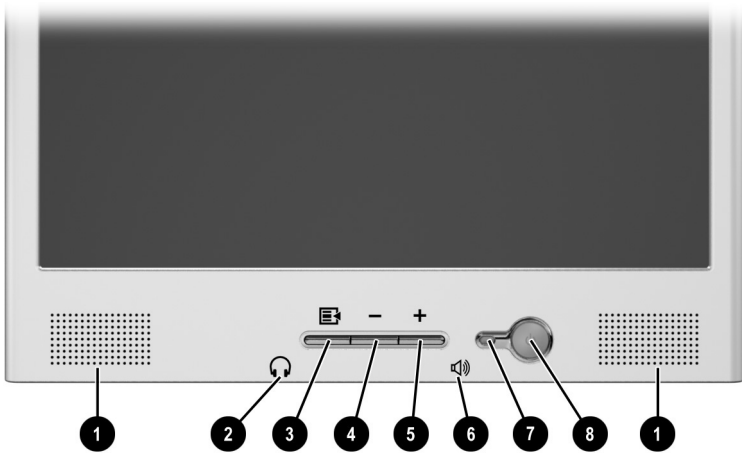
Installing the Information Files

The CD-ROM included with this monitor contains two information files to be installed onto your computer; an .INF file and an .ICM file.


- The .INF file defines monitor resources and provides specifications used by most operating systems to install support software for certain hardware devices. The .INF file ensures monitor compatibility and optimization with your computer's graphics adapter. INF files are also downloadable by clicking on: <http://www.hp.com/go/support> and selecting the desired monitor.
- The .ICM file provides color matching consistency from monitor screen to printer and is activated from within graphics programs that have this feature.


To install these files on your computer, insert the *Software and Reference Library* CD in your computer CD-ROM drive. When the CD menu launches, select “Install INF and ICM Files” and follow the on-screen instructions.

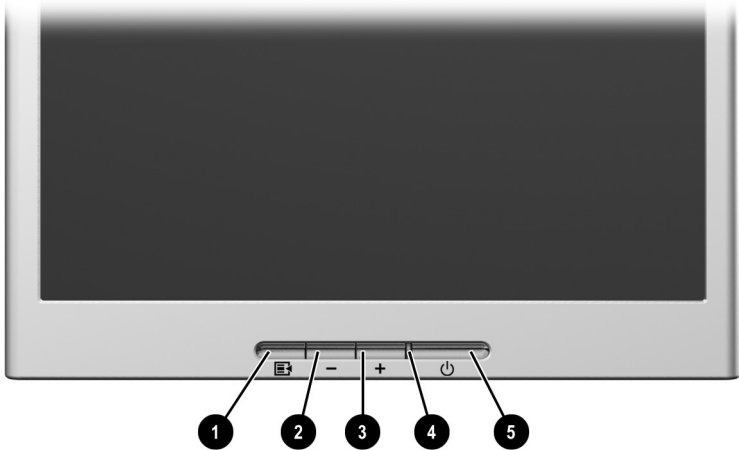
Front Panel Components



L1502m, L1702m, f1523, f1723, FP5315, and FP7317 Monitors

| No. | Control | Function |
|-----|--|---|
| ① | Speakers | Audio feature for music, alarms, etc. (multimedia models only) |
| ② |  (Headphone jack) | Connects a headphone set to the monitor. |
| ③ | Menu button | Launches the On-Screen Display (OSD) menu and selects functions. |
| ④ | - (Minus button) | <ul style="list-style-type: none">• When OSD is inactive, auto-adjusts the screen image.• When OSD is active, navigates in reverse through the OSD and adjusts OSD scale settings. |
| ⑤ | + (Plus button) | When the OSD is active, navigates through the OSD and adjusts OSD scale settings. |

| No. | Control | Function |
|-----|---|---|
| ⑥ |  (Volume control) | Controls the volume level of the monitor speakers. |
| ⑦ | Power LED | Fully powered = Green. Sleep mode = Amber. Sleep Timer mode = Flashing Amber. |
| ⑧ | Power Switch | Powers the monitor on and off. |



FP15, FP17, L1502, L1702, vf15, and vf17 Monitors

| No. | Control | Function |
|-----|------------------|--|
| ① | Menu button | Launches the On-Screen Display (OSD) menu and selects functions. |
| ② | - (Minus button) | <ul style="list-style-type: none"> • When OSD is inactive, auto-adjusts the screen image. • When OSD is active, navigates in reverse through the OSD and adjusts OSD scale settings. |

| No. | Control | Function |
|-----|-----------------|---|
| ③ | + (Plus button) | When the OSD is active, navigates through the OSD and adjusts OSD scale settings. |
| ④ | Power LED | Fully powered = Green. Sleep mode = Amber. Sleep Timer mode = Flashing Amber. |
| ⑤ | Power Switch | Powers the monitor on and off. |

Adjusting Monitor Settings

Use the On-Screen Display (OSD) to adjust the screen image based on your viewing preferences. To access the OSD, do the following:

1. If the monitor is not already on, press the Power switch to turn on the monitor.
2. To access the OSD Menu, press the Menu button on the monitor's front panel.



3. To navigate through the OSD Menu, press the + (Plus) button on the monitor's front panel to scroll up, or the – (Minus) button to scroll in reverse.
4. To select an item from the OSD Menu, use the + or – buttons to scroll to and highlight your selection, then press the Menu button to select that function.
5. Adjust the item using the + or – buttons on the front panel to adjust the scale.
6. After adjusting the function, select Save and Return, or Cancel if you don't want to save the setting, then select Exit from the Main Menu.



If the buttons remain untouched for 10 seconds while displaying a menu, new adjustments will be discarded and the settings will revert to previous settings and exit the menu.

Using the On-Screen Display

There are two On-Screen Display menus available; one for basic adjustments, and one for advanced adjustments.

To access the Basic OSD Menu, press the menu button on the monitor's front panel.

| Basic OSD Menu Levels | |
|------------------------------|---------------------|
| Menu Level 1 | Menu Level 2 |
| Brightness | Adjustment Scale |
| Contrast | Adjustment Scale |
| Auto Adjustment | |

Basic OSD Menu Levels

| Menu Level 1 | Menu Level 2 |
|---------------|--------------|
| Advanced Menu | |
| Exit | |

To access the Advanced OSD Menu, press the menu button again, or select Advanced Menu from the Basic OSD Menu.



After selecting the Advanced Menu from the Basic Menu, the Advanced Menu remains the default OSD on subsequent power-ups of the monitor until the Basic Menu is selected or Factory Reset is applied.

The Advanced OSD Menu has up to three sublevels and can be viewed in one of six available languages. The following table provides the menus and their functions at each level:

Advanced OSD Menu Levels

| Level 1 | Level 2 | Level 3 | Factory Reset |
|---------------|---------------------|---------------------|---------------|
| Brightness | Adjustment Scale | | Y |
| Contrast | Adjustment Scale | | Y |
| Image Control | Auto Adjustment | "Adjusting" Message | Y |
| | Horizontal Position | Adjustment Scale | Y |
| | Vertical Position | Adjustment Scale | Y |
| | Clock | Adjustment Scale | Y |
| | Clock Phase | Adjustment Scale | Y |
| | Cancel | | |
| | Save and Return | | |

Advanced OSD Menu Levels (Continued)

| Level 1 | Level 2 | Level 3 | Factory Reset |
|----------------|---------------------|-------------------------|--|
| Color | 9300 K | | Y (FP5315, FP7317, FP15, FP17, f1523, f1723, vf15, vf17 models) |
| | 6500 K - sRGB | | Y (L1502, L1702, L1502m, L1702m models) |
| | Custom Color | Custom Color Adjustment | |
| | Cancel | | |
| | Save and Return | | |
| Language | Deutsch | | |
| | English | | N |
| | Espanol | | |
| | Francais | | |
| | Italiano | | |
| | Nederlands | | |
| | Cancel | | |
| | Save and Return | | |
| Management | Power Saver | On / Off Selection | N |
| | Power On Recall | On / Off Selection | N |
| | Mode Display | On / Off Selection | N |
| | Sleep Timer | Timer Menu | |
| | Basic Menu | | |
| | Cancel | | |
| | Save and Return | | |
| OSD Control | Horizontal Position | Adjustment Scale | N |
| | Vertical Position | Adjustment Scale | N |
| | OSD Timeout | Adjustment Scale | N |

Advanced OSD Menu Levels *(Continued)*

| Level 1 | Level 2 | Level 3 | Factory Reset |
|---------------|-----------------|---------|---------------|
| | Cancel | | |
| | Save and Return | | |
| Factory Reset | Yes | | |
| | No | | |
| Exit | | | |

Adjusting Screen Quality

Allow the monitor to warm up for 20 minutes before performing the following procedures.

The Auto-adjustment feature automatically fine-tunes the image quality each time a new video mode is displayed. If additional image quality improvement is desired, run the Auto-Adjust software on the CD and press the – (Minus) button on the monitor front panel to manually activate the Auto-Adjustment function.

For more precise adjustments, run the Auto-Adjust software on the CD, and use the Clock and Phase controls of the monitor to fine-tune the image.

Optimizing Digital Conversion

This monitor contains advanced circuitry that allows the flat panel screen to function like a standard monitor. Two controls in the on-screen display can be adjusted to improve image performance: Clock and Clock Phase. Use these controls only when the auto-adjust function does not provide a satisfactory image.



The Clock must first be set correctly since the Clock Phase settings are dependent on the main Clock setting.

- **Clock**—Increase/decrease the value to minimize any vertical bars or stripes visible on the screen background.
- **Clock Phase**—Increase/decrease the value to minimize video distortion or video jitter.



When using the controls, you will obtain the best results by using the Auto-Adjustment software.



When adjusting the Clock and Clock Phase values, if the monitor images become distorted, continue adjusting the values until the distortion disappears. To restore the factory settings, select Yes from the Factory Reset menu in the on-screen display.

Identifying Monitor Conditions

Special messages will appear on the monitor screen when identifying the following monitor conditions:

- **Input Signal Out of Range**— Indicates the monitor does not support the input signal because the resolution and/or refresh rate are set higher than the monitor supports. For 15” monitors, set the resolution and refresh rate to 1024 x 768 at 60 Hz. For 17” monitors, set the resolution and refresh rate for 1280 x 1024 at 60 Hz. Restart your computer for the new settings take effect.
- **Going to Sleep**— Indicates the screen display is entering a sleep mode.
- **Check Video Cable**— Indicates the video cable is not properly connected to the computer.
- **OSD Lock**—The OSD can be enabled or disabled by pressing and holding the Menu button on the front panel for 10 seconds. If the OSD is locked, the warning message “OSD Lock” displays for ten seconds.

- ❑ If the OSD is locked, press and hold the Menu button for 10 seconds to unlock the OSD.
- ❑ If the OSD is unlocked, press and hold the Menu button for 10 seconds to lock the OSD.

Sleep Timer Mode

The Sleep Timer mode is an energy-saving feature that enables you to set a time for the monitor to power on and off at the same time every day. This also extends the life of the backlight bulbs in the monitor. The Sleep Timer has five settings:

- Set Current Time
- Set Sleep Time
- Set On Time
- Timer: On/Off
- Sleep Now

To set the timer:

1. Press the Menu button on the monitor front panel to display the Advanced Menu.
2. Scroll down and highlight Management.
3. Press the Menu button to select Management.
4. Scroll down and highlight and select Sleep Timer > Set Current Time.



You must set the current local time before you reset the time for Sleep Time or On Time. Note that the time is displayed in a 24 hour clock format. For example, 1:15 p.m. displays as 13 hours 15 minutes.

5. Press the Menu button once to enter the adjustment mode for hours.

6. Press the - (Minus) or + (Plus) buttons to adjust the hour.
7. Press the Menu button again to enter the time for minutes.
8. Press the - (Minus) or + (Plus) buttons to adjust the minutes.
9. Press the Menu button to lock in the time chosen.
10. After setting the current time, the highlight automatically skips to Set Sleep Time hours. Repeat steps 6 through 9 to set Sleep Time.
11. If you do not want to set Sleep Time, press the Menu button twice, then select Save and Return to exit the menu.
12. After setting Sleep Time, the highlight automatically skips to Set On Time hours. Repeat steps 6 through 9 to set On Time.
13. Set the Timer mode to On to activate the Sleep Timer settings.
14. When you are finished, select Save and Return to exit the menu.

The fifth selection, Sleep Now, turns the monitor backlights off immediately and stays in sleep mode until the next On Time activates or a monitor button is pressed.

sRGB Support

The monitor is designed to support sRGB for color management, which adapts to the color standards used in the image technology industry. Additional information on sRGB is available on www.srgb.com (English only).

To take advantage of the sRGB support, you will need to change your monitor's color temperature to 6500 K - sRGB and install the sRGB color profile (ICM) file.

Changing the Color Temperature



These steps are not necessary for the L1502, L1502m, L1702 and L1702m models. When the color temperature is changed to 6500 K - sRGB, there will be a small reduction in brightness.

1. Press the Menu button on the front panel of the monitor to launch the Main Menu of the OSD.
2. Select Advanced Menu to access all options in the Main Menu.
3. Select Color to display the Color Temperature menu.
4. Select 6500 K - sRGB.
5. Select Save and Return to exit the menu.

Installing the sRGB ICM File for Microsoft Windows 98, Windows ME, Windows 2000 and Windows XP



To complete the following procedure, you must be logged in as an administrator or a member of the administrator's group. If the computer is connected to a network, network policy settings may prevent you from completing this procedure.

The sRGB ICM file does not support Windows 95 and Windows NT operating systems

1. Click the Display icon in the Control Panel.
2. In the Display Properties windows, select the **Settings** tab, then click the **Advanced** button.
3. Select the **Color Management** tab, then click the **Add** button to open the Add Profile Association dialog box.

4. Select the “sRGB Color Space Profile.icm” file, then click the **Add** button
5. To activate a color profile for your monitor, you must set it as the Default Monitor Profile. Select “sRGB Color Space Profile,” then click **Set as Default** button.
6. Click **Apply** or **OK**.

A

Troubleshooting

Solving Common Problems

The following table lists possible problems, the possible cause of each problem, and the recommended solutions.

| Problem | Possible Cause | Solution |
|------------------|--------------------------------------|---|
| Screen is blank. | Power cord is disconnected. | Connect the power cord. |
| | Power switch is turned off. | Turn on the power. |
| | Video cable is improperly connected. | Connect the video cable properly. Refer to <i>Chapter 3, Setting Up the Monitor</i> , for more information. |
| | Screen blanking utility is active. | Depress any key on the keyboard or move the mouse to inactivate the screen blanking utility. |

| Problem | Possible Cause | Solution |
|---|--|--|
| Image appears blurred, indistinct, or too dark. | Brightness and contrast are too low. | Press the Minus button on the monitor front panel to auto-adjust the screen. If that doesn't work, press the Menu button to open the Basic OSD Menu, and adjust the brightness and contrast scales as needed. |
| Image is not centered. | Position may need adjustment. | Press the Menu button to access the Advanced OSD menu. Select Image Control/Horizontal Position or Vertical Position to adjust the horizontal or vertical position of the image. |
| "Check Video Cable" is displayed on screen. | Monitor video cable is disconnected. | Connect the 15-pin monitor video cable to the VGA connector on the computer. Be sure that the computer power is off while connecting the video cable. |
| "Input Signal Out of Range" is displayed on screen. | Video resolution and/or refresh rate are set higher than what your monitor supports. | Restart your computer and enter Windows Safe Mode by pressing the F6 Function key when the computer starts to boot up. Change your settings to a supported setting . Restart your computer so that the new settings take effect. |

Using the Worldwide Web

Before contacting customer services, refer to the support Web site at: <http://www.hp.com/go/support>

Preparing to call Technical Support

If you cannot solve a problem using the troubleshooting tips in this section, you may need to call technical support. Have the following information available when you call:

- The monitor
- Monitor model number (on front and back panel)
- Serial number for the monitor (on back panel)
- Purchase date on invoice
- Conditions under which the problem occurred
- Error messages received
- Hardware configuration (found on Windows Control Panel)
- Hardware and software you are using

Technical Specifications

vf15, FP15, L1502, L1502m, f1523, and FP5315 Models

15-inch Flat Panel Monitors

| | | |
|--------------------------------|--------------------------|--------------------|
| Display Type | 15.0 inches TFT LCD | 38.1 cm |
| Viewable Image Size | 15.0-inch diagonal | 38.1 cm |
| Tilt | -5 to 30° | |
| Maximum Weight (Unpacked) | 9.15 lbs. | 4.15 kg (unpacked) |
| Dimensions (includes pedestal) | | |
| Height | 14.01 inches | 356 mm |
| Depth | 7.5 inches | 190 mm |
| Width | 13.6 inches | 345 mm |
| Preferred Mode | 1024 x 768 (60 Hz) | |
| Text Mode | 720 x 400 | |
| Dot Pitch | 0.297 (H) x 0.297 (W) mm | |
| Horizontal Frequency | 30 to 61 kHz | |
| Vertical Refresh Rate | 56 to 76 Hz | |

vf15, FP15, L1502, L1502m, f1523, and FP5315 Models

15-inch Flat Panel Monitors *(Continued)*

Environmental Requirements

Temperature:

| | | |
|---------------------------|--------------|---------------|
| Operating Temperature | 41 to 95° F | 5 to 35° C |
| Non-operating Temperature | -4 to 140° F | -20 to +60° C |

| | |
|-------------------|-----------|
| Relative Humidity | 20 to 80% |
|-------------------|-----------|

Altitude:

| | | |
|---------------|------------------|---------------|
| Operating | 0 to 12,000 feet | 0 to 3657.6 m |
| Non-operating | 0 to 40,000 feet | 0 to 12192 m |

| | |
|--------------|---------------------------|
| Power Source | 100 – 240 VAC, 50 – 60 Hz |
|--------------|---------------------------|

| | |
|-------------------|-------------------|
| Power Consumption | <40 watts typical |
|-------------------|-------------------|

| | |
|-----------------|--|
| Input Terminals | 15-pin D-type connector with cable included. |
|-----------------|--|

vf17, FP17, L1702, L1702m, f1723, and FP7317 Models

17-inch Flat Panel Monitors

| | | |
|-------------------------------|---------------------------|-------------------|
| Display Type | 17.0 inches TFT LCD | 43.18 cm |
| Viewable Image Size | 17.0-inch diagonal | 43.18 cm |
| Tilt | -5 to 30° | |
| Maximum Weight (Unpacked) | 13.2 lbs. | 6.0 kg (unpacked) |
| Dimensions (include pedestal) | | |
| Height | 15.9 inches | 405 mm |
| Depth | 7.8 inches | 198 mm |
| Width | 14.9 inches | 379 mm |
| Preferred Mode | 1280 x 1024 (60 Hz) | |
| Text Mode | 720 x 400 | |
| Dot Pitch | 0.264 (H) x 0.264 (W) mm | |
| Horizontal Frequency | 30 to 81 kHz | |
| Vertical Refresh Rate | 56 to 76 Hz | |
| Environmental Requirements | | |
| Temperature: | | |
| Operating Temperature | 41 to 95° F | 5 to 35° C |
| Non-operating Temperature | -4 to 140° F | -20 to +60° C |
| Relative Humidity | 20 to 80% | |
| Power Source | 100 – 240 VAC, 50 – 60 Hz | |

vf17, FP17, L1702, L1702m, f1723, and FP7317 Models

17-inch Flat Panel Monitors *(Continued)*

Altitude:

| | | |
|---------------|------------------|---------------|
| Operating | 0 to 12,000 feet | 0 to 3657.6 m |
| Non-operating | 0 to 40,000 feet | 0 to 12192 m |

Power Consumption <50 watts typical

Input Terminal 15-pin D-type connector with cable included.

Entering User Modes

The video controller signal may occasionally call for a mode that is not preset if:

- You are not using a standard graphics adapter.
- You are not using a preset mode.

If this occurs, you may need to readjust the parameters of the monitor screen by using the on-screen display. Your changes can be made to any or all of these modes and saved in memory. The monitor automatically stores the new setting, then recognizes the new mode just as it does a preset mode. In addition to the 16 factory preset modes, there are four user modes that can be entered and stored.

Energy Saver Feature

When the monitor is in its normal operating mode, the Power light is green.

The monitor also supports a reduced power state. The reduced power state is entered into if the monitor detects the absence of either the horizontal sync signal and/or the vertical sync signal. Upon detecting the absence of these signals, the monitor screen blanks, the backlight turns off, and the Power light turns amber.

When the monitor is in the reduced power state, the monitor utilizes less than 2 watts of power. There is a brief warm up period before the monitor returns to its normal operating mode.

Refer to your computer manual for instructions on setting energy saver features (sometimes called power management features).



The above energy saver feature only works when connected to computers that have energy saver features.

By selecting settings in the monitor's Energy Saver utility, you can also program the monitor to enter into the reduced power state at a predetermined time. When the monitor's Energy Saver utility causes the monitor to enter the reduced power state, the power light blinks amber.

Agency Regulatory Notices

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hewlett Packard Company may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Declaration of Conformity for Products Marked with FCC Logo, United States Only

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For questions regarding your product, contact:

Hewlett Packard Company
P. O. Box 692000, Mail Stop 530113
Houston, Texas 77269-2000

Or, call

1-800- 652-6672

For questions regarding this FCC declaration, contact:

Hewlett Packard Company
P. O. Box 692000, Mail Stop 510101
Houston, Texas 77269-2000

Or, call

(281) 514-3333

To identify this product, refer to the Part, Series, or Model number found on the product.

Canadian Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Avis Canadien

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms (in brackets are the equivalent international standards):

- EN55022 (CISPR 22) - Electromagnetic Interference
- EN55024 (IEC61000-4-2,3,4,5,6,8,11) - Electromagnetic Immunity
- EN61000-3-2 (IEC61000-3-2) – Power Line Harmonics
- EN61000-3-3 (IEC61000-3-3) – Power Line Flicker
- EN60950 (IEC950) - Product Safety

Japanese Notice

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

Korean Notice

사용자 안내문 (B급기기)
이 기기는 비업무용으로 전자파장해 검정을 받은
기기로서, 주거지역에서는 물론 모든 지역에서
사용할 수 있습니다.

EPA Energy Star Compliance

Monitors that are marked with the Energy Star Logo meet the requirements of the EPA Energy Star program. As an Energy Star Partner, Hewlett Packard Company has determined that this product meets the Energy Star guidelines for energy efficiency. Specific details on using the Energy Saving features can be found in the energy saver or power management section of the computer manual.

Power Cord Set Requirements

The monitor power supply is provided with Automatic Line Switching (ALS). This feature allows the monitor to operate on input voltages between 100-120V or 200-240V.

The power cord set (flexible cord or wall plug) received with the monitor meets the requirements for use in the country where you purchased the equipment.

If you need to obtain a power cord for a different country, you should purchase a power cord that is approved for use in that country.

The power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product. In addition, the cross-sectional area of the wire must be a minimum of 0.75 mm²

or 18AWG, and the length of the cord must be between 6 feet (1.8 m) and 12 feet (3.6 m). If you have questions about the type of power cord to use, contact your HP authorized service provider.

A power cord should be routed so that it is not likely to be walked on or pinched by items placed upon it or against it. Particular attention should be paid to the plug, electrical outlet, and the point where the cord exits from the product.

LCD Monitor Quality and Pixel Policy

The TFT monitor uses high-precision technology, manufactured according to HP standards, to guarantee trouble-free performance. Nevertheless, the display may have cosmetic imperfections that appear as small bright or dark spots. This is common to all LCD displays used in products supplied by all vendors and is not specific to the HP LCD. These imperfections are caused by one or more defective pixels or sub-pixels.

- A pixel consists of one red, one green, and one blue sub-pixel.
- A defective whole pixel is always turned on (a bright spot on a dark background), or it is always off (a dark spot on a bright background). The first is the more visible of the two.
- A defective sub-pixel (dot defect) is less visible than a defective whole pixel and is small and only visible on a specific background.

The HP display does not have more than:

- 3 bright dots.
- 5 dark dots.
- 5 total bright and dark dots.
- No more than two adjacent (less than 2.5 mm edge-to-edge) defective pixels.

To locate defective pixels, the monitor should be viewed under normal operating conditions, in normal operating mode at a supported resolution and refresh rate, from a distance of approximately 50 cm (16 in.).

HP expects that, over time, the industry will continue to improve its ability to produce LCDs with fewer cosmetic imperfections and HP will adjust guidelines as improvements are made.

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